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By:   
Roger Hylton

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Gregory S. Hageman

Application No.: 09/511,008 ✓

Filed: February 22, 2000

For: DIAGNOSTICS AND  
THERAPEUTICS FOR ARTERIAL  
WALL DISRUPTIVE DISORDERS

Examiner: Unassigned

Art Unit: 1632 ✓

INFORMATION DISCLOSURE  
STATEMENT UNDER 37 CFR §1.97 and  
§1.98

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

The references cited on attached form PTO-1449 are being called to the attention of the Examiner. Copies of the references are enclosed. Also enclosed are copies of the International Search Report and the Written Opinion issued in the corresponding PCT application. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no inference should be made that the information and references cited are prior art merely because they are in this statement and

GAU 1632  
PATENT  
Attorney Docket No.: 20618-000600US  
Client Reference No.: N9-59  
#8  
127-01  
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no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information. TECHNICAL CENTER 1600/2900

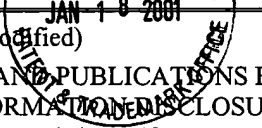
Applicant believes that no fee is required for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,



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FORM PTO-1449 (Modified)		Attorney Docket No.: 20618-000600US	Application No.: 09/511,008
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)		Applicant: Gregory S. Hageman	
		Filing Date: February 22, 2000	Group: 1632

Reference Designation		U.S. PATENT DOCUMENTS			Page 1	
Examiner Initial	Document No.	Date	Name	Class	Sub-class	Filing Date (If Appropriate)

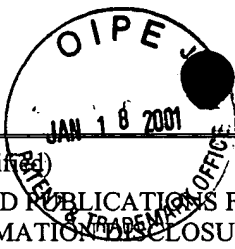
FOREIGN PATENT DOCUMENTS						
	Document No.	Date	Country	Class	Sub-class	Translation (Yes/No)
<input checked="" type="checkbox"/> AA	WO 97 40849	11/06/97	PCT			
<input checked="" type="checkbox"/> AB	WO 94 01123	01/20/94	PCT			

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)	
<input checked="" type="checkbox"/> AC	Allaire E, et al., "Local overexpression of TIMP-1 prevents aortic aneurysm degeneration an a rat model," J Clin Invest, 102(7), 1413-20, 1998
<input checked="" type="checkbox"/> AD	Anidjar S, et al., "Experimental study of determinants of aneurysmal expansion of the abdomen," Ann Vasc Surg, 9(2), 127-36, 1994.
<input checked="" type="checkbox"/> AE	Aoyagi M, et al., "Smooth muscle cell proliferation, elastin formation, and tropoelastin transcripts during the development of intimal thickening in rabbit carotid arteries after endothelial denudation," Histochem Cell Biol 107:117, 1997.
<input checked="" type="checkbox"/> AF	Beckman, EN, "Plasma cell infiltrates in atherosclerotic abdominal aortic aneurysms," AM. J. Clin. Pathol., 85:21-24, 1986
<input checked="" type="checkbox"/> AG	Bigatel DA, et al., "The matrix metalloproteinase inhibitor BB-94 limits expansion of experimental abdominal aortic aneurysms," J Vasc Surg, 29(1):130-8; discussion 138-9, 1999.
<input checked="" type="checkbox"/> AH	Bilato and Crow "Atherosclerosis and the vascular biology of aging," Aging 8(4):221-34, 1996.
<input checked="" type="checkbox"/> AI	Bobryshev, Y.V. et al., "Immunophenotypic analysis of the aortic aneurism wall suggests that vascular dendritic cells are involved in immune reponses," Cardiovascular Surgery, 6(3):240-249, 1998.
<input checked="" type="checkbox"/> AJ	Boyle JR, et al., "Amlodipine potentiates metalloproteinase activity and accelerates elastin degradation in a model of aneurysmal disease," Eur J Vasc Endovasc Surg, 16(5):408-14, 1998.
<input checked="" type="checkbox"/> AK	Boyle JR, et al., "Doxycycline inhibits elastin degradation and reduces metalloproteinase activity in a model of aneurysmal disease," J Vasc Surg, 27(2):354-61, 1998.
<input checked="" type="checkbox"/> AL	Brophy, CM et al., "Decreased tissue inhibitor of metalloproteinases (TIMP) in abdominal aortic aneurysm tissue: a preliminary report," J Surg Research 50:653-657, 1991.
<input checked="" type="checkbox"/> AM	Brophy, CM et al., "The role of inflammation in nonspecific abdominal aortic aneurysm disease," Annals Vasc. Surg., 5:229-233, 1991.
<input checked="" type="checkbox"/> AN	Buckmaster MJ, et al., "Source of elastin-degrading enzymes in mycotic aortic aneurysms: bacterial or inflammatory response?," Cardiovasc Surg, 71:16-26, 1999.
<input checked="" type="checkbox"/> AO	Campa, "Elastin degradation in abdominal aortic aneurysms," JS, Atherosclerosis 65:13-21, 1987.
<input checked="" type="checkbox"/> AP	Capella, et al. "Complement activation and subclassification of tissue immunoglobulin G in the abdominal aortic aneurysm," (J. Surg. Research 65:31-33, 1996.
<input checked="" type="checkbox"/> AQ	Cattell MA, et al., "Increased elastin content and decreased elastin concentration may be predictive factors in dissecting aneurysms of human thoracic aorta," Cardiovasc Res, 27(2):176-81, 1993.
<input checked="" type="checkbox"/> AR	Chaine, G. et al., "Case control study of the risk factors for age related macular degeneration. France DMLA study group," STN Database accession no. 1999109465, XP0021455344.
<input checked="" type="checkbox"/> AS	Cohen, et al., "α1-Antitrypsin phenotypes in patients with abdominal aortic aneurysms," J. Surg. Res. 49:319-321, 1990.
<input checked="" type="checkbox"/> AT	Cunningham, R.D. et al., "Aneurysm of the ophthalmic artery with drusen of the optic nerve head," American Journal Ophthalmology, 72 (4), pages 743-5, 1971.
<input checked="" type="checkbox"/> AU	Curci JA, et al., "Expression and localization of macrophage elastase matrix metalloprotein abdominal aortic aneurysms," J Clin Invest, 102(11):1900-10, 1998.
<input checked="" type="checkbox"/> AV	Davis V, et al., "Matrix metalloproteinase-2 production and its binding to the matrix are in abdominal aortic aneurysms," Arterioscler Thromb Vasc Biol, 18(10):1625-33, 1998.

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AW	Elmore JR, et al., "Expression of matrix metalloproteinases and TIMPs in human abdominal aneurysms," Ann Vasc Surg, 12(3):221-8, 1998.
AX	Feeney-Burns, L., and Ellersieck, M. "Age-related changes in the ultrastructure of bruch's membrane," Amer. J. Ophthalmol., 100, 686-697, 1985.
AY	Gargiulo M, et al., "Content and turnover of extracellular matrix protein in human "nonspecific" inflammatory abdominal aortic aneurysms," Eur J Vasc Surg, 7(5):546-53, 1993.
AZ	Grange JJ, et al., "Pathogenesis of abdominal aortic aneurysm: an update and look toward the future," Cardiovasc Surg, 5(3):256-65, 1997.
BA	Gregory, et al., "Features of autoimmunity in the abdominal aortic aneurysm," Arc Surg, 131:85-88, 1996.
BB	Guo, et al., "Matrix metalloproteinase and their inhibitors in vitreous in age-related macular degeneration and proliferative diabetic retinopathy" IOVS (Suppl) 38:S354, 1997.
BC	He , et al., "The composition and mechanical properties of abdominal aortic aneurysm," J Vasc Surg, 20(1):6-13 1994.
BD	Hirose, H. et al., "Molecular cloning of the complementary DNA for an additional member of the family of aortic aneurysm antigenic proteins," J. Vasc. Surg. 26: 313-318, 1997.
BE	Hirose, H., et al., "Genetic risk factor for abdominal aortic aneurysm: HLA-DR2(15), A Japanese study," J. Vasc. Surg. 27:500-503, 1998.
BF	Holmes DR, et al., "Indomethacin prevents elastase-induced abdominal aortic aneurysms in the rat," J Surg Res, 63(1):305-9, 1996.
BG	Holz, F., et al. "Analysis of lipid deposits extracted from human macular and peripheral bruch's membrane," Arch. Ophthalmol., 112, 402-406, 1994.
BH	Keen RR, et al., "Interleukin-1 beta induces differential gene expression in aortic smooth muscle," J Vasc Surg, 20(5):774-86, 1994.
BI	Koch, et al., Human abdominal aortic aneurysms," Am. J. Path., 137:1199-1213, 1990.
BJ	Kuivaniemi, et al., " Fibulin-2 exhibits high degree of variability, but no structural changes concordant with abdominal aortic aneurysm," Eur. J. Hum. Gen 6:642-646, 1998.
BK	Kuivaniemi, H. et al., "Genetic causes of aortic aneurysms," J. Clin. Invest. 88:1441-1444, 1991.
BL	Menashi, S., "Collagen in abdominal aortic aneurysm: typing, content, and degradation," J. Vasc. Surg., 578-582, 1987.
BM	Minion DJ, et al., "Elastin is increased in abdominal aortic aneurysms," J Surg Res, 57(4):443-6, 1994.
BN	Miralles M, et al., "Indomethacin inhibits expansion of experimental aortic aneurysms via inhibiting the cox2 isoform of cyclooxygenase," J Vasc Surg, 29(5):884-93, 1999.
BO	Moore G, et al., "Suppression of experimental abdominal aortic aneurysms by systemic treatment with hydroxamate-based matrix metalloproteinase inhibitor (RS 132908)," J Vasc Surg, 20(3):522-32, 1999.
BP	Newman KM, et al., "Matrix metalloproteinases in abdominal aortic aneurysm: characterization, purification, and their possible sources," Connect Tissue Res, 30(4):265-76, 1994.
BQ	Newsome, D., et al., "Reaction of specific extracellular matrix molecules in drusens, bruch's membrane, and ciliary body," Amer. J. Ophthalmol., 104, 373-381, 1987.
BR	Ozsvath, K., et al., "Molecular mimicry in human aortic aneurysmal diseases," Annals NY Acad. Sci., 800:288-293, 1996.
BS	Powell JT, et al., "Interaction between fibrillin genotype and blood pressure and the develop aneurysmal disease," Ann NY Acad Sci, 800(-HD-):198-207, 1996.
BT	Rasmussen TE, et al., "Genetic risk factors in inflammatory abdominal aneurysms: polymorphic residue 70 in the HLA-DR B1 gene as a key genetic element," J Vasc Surg, 25(2):356-64, 1997.
BU	Reilly, J. M., "Plasminogen activators in abdominal aortic aneurysmal disease," Annals NY Acad. Sci., 800:151-156, 1996.
BV	Robert L, et al., "Elastin-elastase-atherosclerosis revisited," Atherosclerosis, 140(2):281-95, 1998.
BW	Sacks, S.G. et al., "The pathogenesis of optic nerve drusen. A hypothesis," Archives of Ophthalmology 95(3), pages 425-8, 1977.
BX	Sakalihasan N, et al., "Activated forms of MMP2 and MMP9 in abdominal aortic aneurysms," J Vasc Surg, 24(1):127-33, 1996.



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<input checked="" type="checkbox"/> BY	Sauvage M, et al., "Localization of elastin mRNA and TGF-beta in rat aorta and caudal artery as a function of age," Cell Tissue Res. 29:305-314, 1998.		
<input type="checkbox"/> BZ	Sobolewski, K. et al., Act. Biocim. Polonica, 42:301-308, 1995.		
<input type="checkbox"/> CA	Stanley JC et al., "Splanchnic and renal artery aneurysms," pp. 468-481 in WS Moore, <u>Vascular Surgery: A Comprehensive Review</u> , WB Saunders, 1998.		
<input type="checkbox"/> CB	Starita, C., et al., Exp. Eye Res., 62, 565-572, 1996.		
<input type="checkbox"/> CC	Tamarina NA, et al., "Expression of matrix metalloproteinases and their inhibitors in aneurysms of the aorta," Surgery, 122(2):264-72, 1997.		
<input type="checkbox"/> CD	Tamarina et al., "Proteoglycan gene expression is decreased in abdominal aortic aneurysms," J. Surg. Research 74:76-80, 1998.		
<input type="checkbox"/> CE	Tromp, G. et al., "Sequencing of cDNA from 50 unrelated patients reveals that mutations in the triple-helical domain of type III procollagen are an infrequent cause of aortic aneurysms," J. Clin. Invest., 91:2539-2545, 1993.		
<input type="checkbox"/> CF	Verloes, A., et al., "Aneurysms of the abdominal aorta: familial and genetic aspects in three hundred thirteen pedigrees," J. Vasc. Surg. 21:646-655, 1995.		
<input type="checkbox"/> CG	Vine and Powell, "Metalloproteinases in degenerative aortic disease," Clinical Sci., 81:233-239, 1991.		
<input type="checkbox"/> CH	Vingerling, J.R. et al., "Age related macular degeneration and smoking. The rotterdam study," Arch Phththalmol., vol. 114, no. 10, pages 1193-1196, 1996.		
<input type="checkbox"/> CI	Walton LJ, et al., "Inhibition of prostaglandin E2 synthesis in abdominal aortic aneurysms: implications for smooth muscle cell viability, inflammatory processes, and the expansion of abdominal aortic aneurysms," Circulation, 100(1):48-54, 1999.		
<input type="checkbox"/> CJ	White, et al., "Adventitial elastolysis is a primary event in aneurysm formation," J Vasc Surg, 17(2):371-81, 1993.		
<input checked="" type="checkbox"/> CK	Xia, S et al., "Partial amino acid sequence of a novel 40-kDa human aortic protein, with vitronectin-like, fibrinogen-like, and calcium binding domains: aortic aneurysm-associated protein-40 (AAAP-40)[human MAGP-3,proposed]," Biochem. Biophys. Research Communication, 219:36-39, 1996.		
EXAMINER <i>J. J. L.</i> DATE CONSIDERED 11/2/01			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.